

Appendix B: System Validation Data Plots

(See attachment)

Test Laboratory: Kyocera Wireless Corp.

File Name: [Validation_Probe SN6029, Dipole SN1020, set to probe sensor center for 835Mhz, 09-14-05.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1020

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: H3DV5 - SN6029; ; Calibrated: 6/13/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD835MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

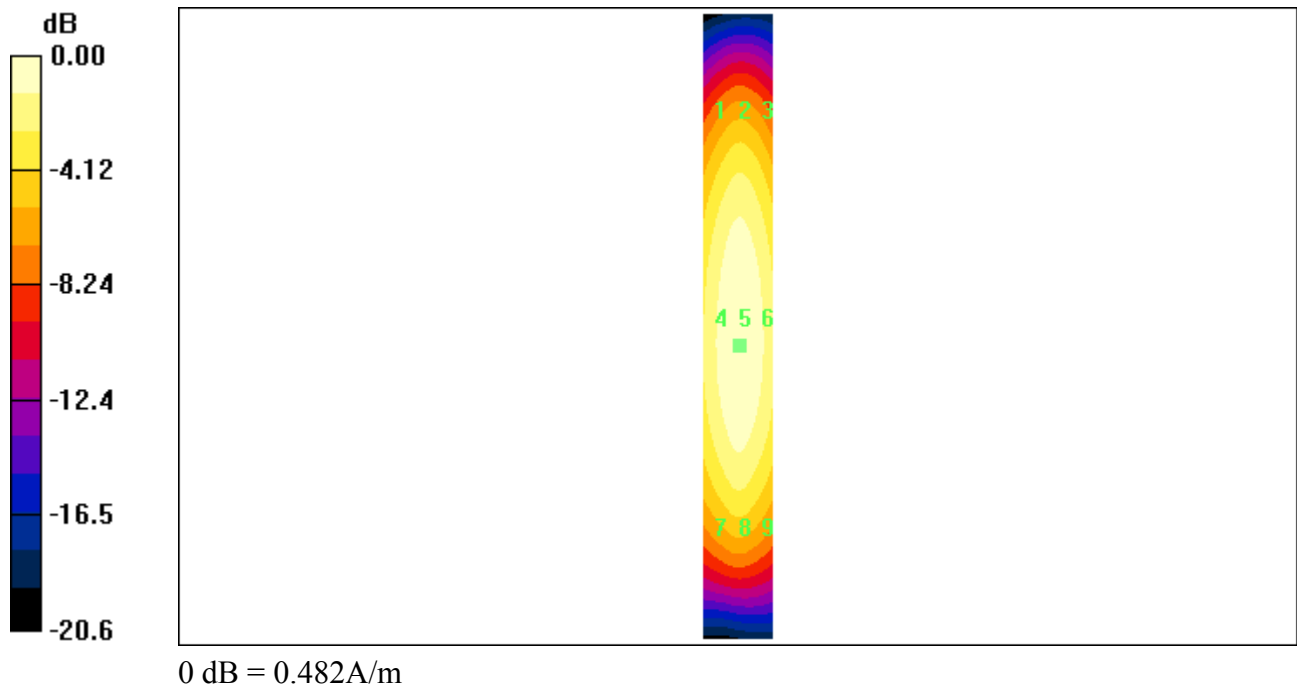
Maximum value of Total field (slot averaged) = 0.482 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3
0.382	0.416	0.399
Grid 4	Grid 5	Grid 6
0.444	0.482	0.462
Grid 7	Grid 8	Grid 9
0.401	0.439	0.416

Grid 1	Grid 2	Grid 3
0.382	0.416	0.399
Grid 4	Grid 5	Grid 6
0.444	0.482	0.462
Grid 7	Grid 8	Grid 9
0.401	0.439	0.416



Test Laboratory: Kyocera Wireless Corp.

File Name: [Validation_E_Dipole_Probe SN2341, Dipole SN1020, set to probe sensor center for 835Mhz, 09-15-05.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1015

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6 - SN2341; ConvF(1, 1, 1); Calibrated: 4/22/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD835MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

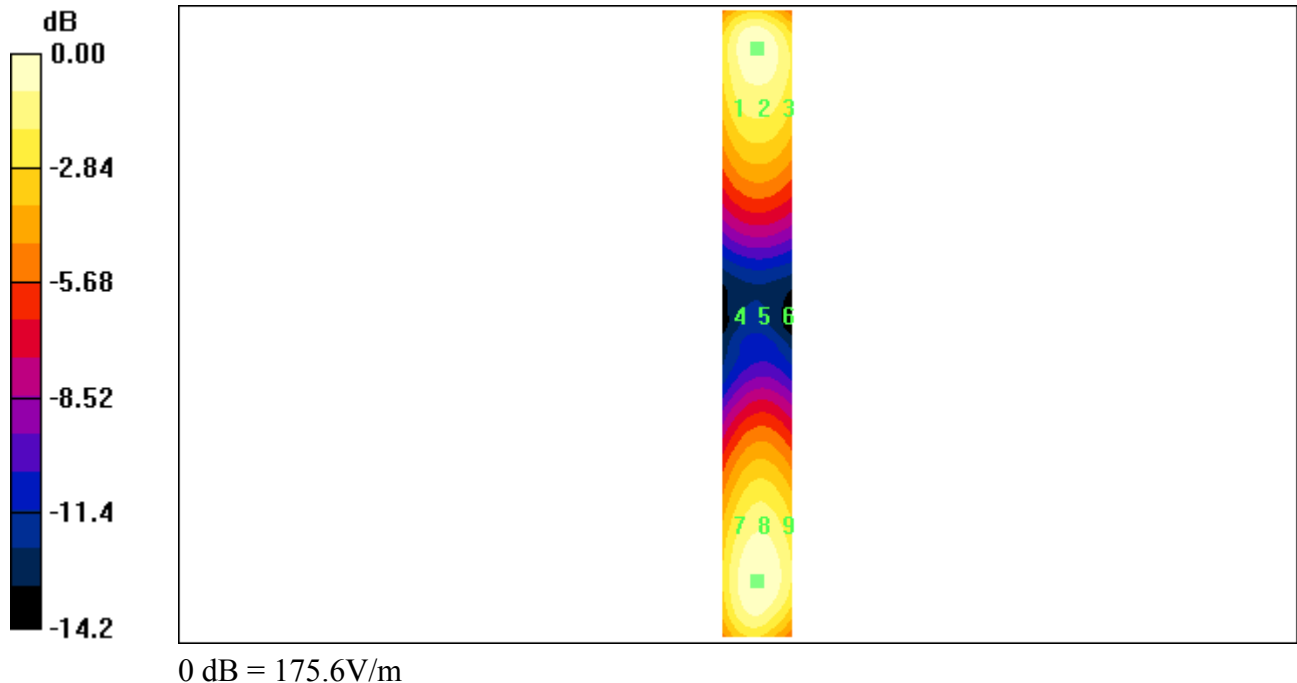
Maximum value of Total field (slot averaged) = 175.6 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3
167.3	171.5	166.9
Grid 4	Grid 5	Grid 6
86.0	92.1	90.7
Grid 7	Grid 8	Grid 9
167.1	175.6	170.5

Grid 1	Grid 2	Grid 3
167.3	171.5	166.9
Grid 4	Grid 5	Grid 6
86.0	92.1	90.7
Grid 7	Grid 8	Grid 9
167.1	175.6	170.5



Test Laboratory: Kyocera Wireless Corp.

File Name: [Validation_Probe SN6029, Dipole SN1015, set to probe sensor center for 1880Mhz, 09-14-05.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1015

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: H3DV5 - SN6029; ; Calibrated: 6/13/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD1880MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

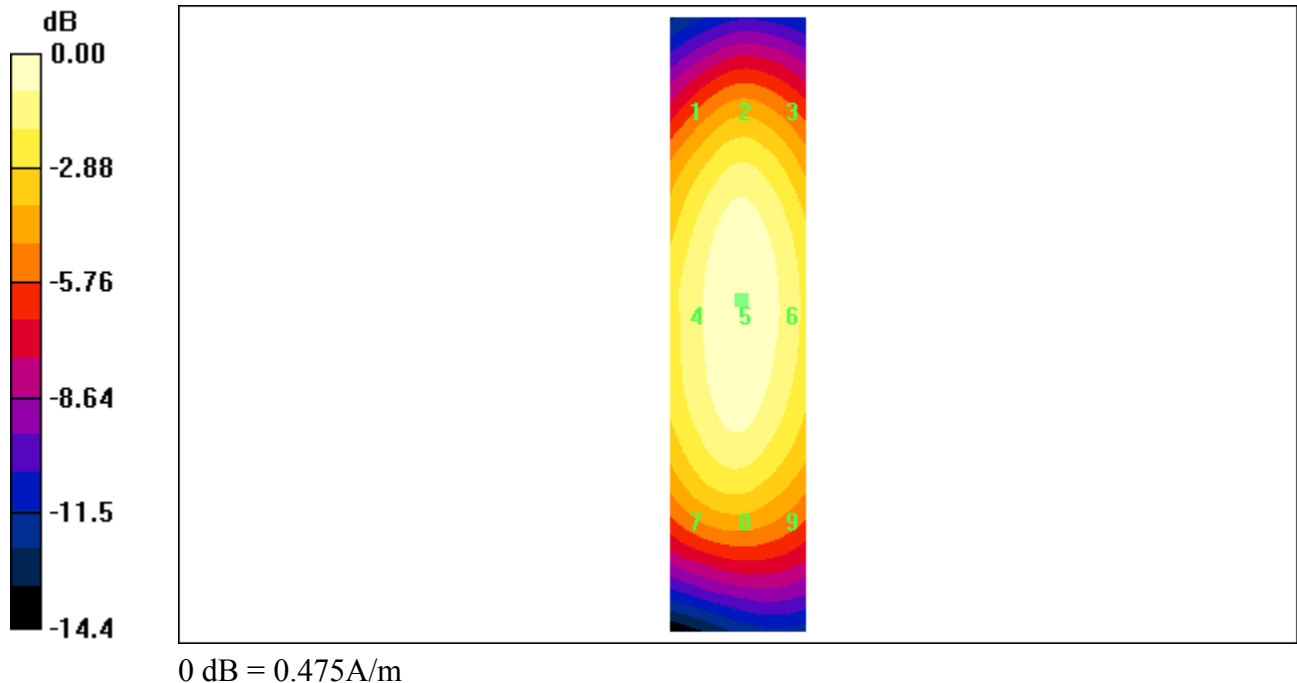
Maximum value of Total field (slot averaged) = 0.475 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3
0.407	0.444	0.426
Grid 4	Grid 5	Grid 6
0.440	0.475	0.455
Grid 7	Grid 8	Grid 9
0.406	0.431	0.407

Grid 1	Grid 2	Grid 3
0.407	0.444	0.426
Grid 4	Grid 5	Grid 6
0.440	0.475	0.455
Grid 7	Grid 8	Grid 9
0.406	0.431	0.407



Test Laboratory: Kyocera Wireless Corp.

File Name: [Validation_E_Dipole_Probe SN2341, Dipole SN1015, set to probe sensor center for 1880Mhz, 09-15-05.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1015

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6 - SN2341; ConvF(1, 1, 1); Calibrated: 4/22/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD1880MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

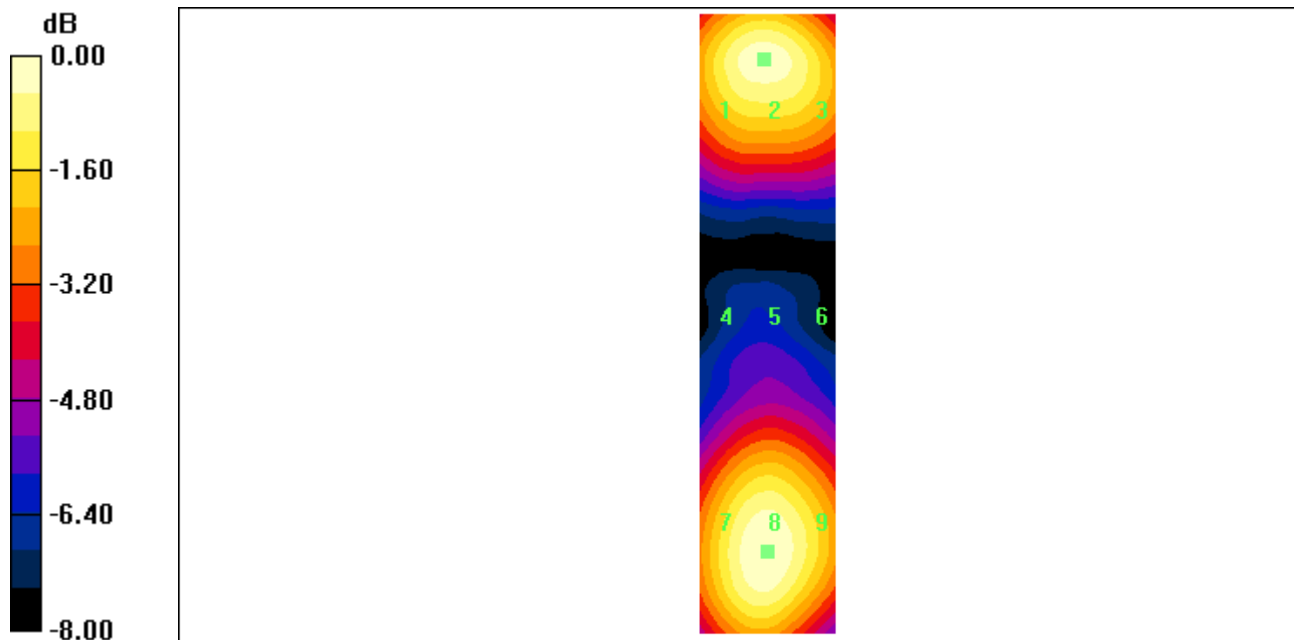
Maximum value of Total field (slot averaged) = 150.1 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3
142.4	147.5	141.4
Grid 4	Grid 5	Grid 6
90.6	96.1	93.1
Grid 7	Grid 8	Grid 9
141.5	150.1	141.9

Grid 1	Grid 2	Grid 3
142.4	147.5	141.4
Grid 4	Grid 5	Grid 6
90.6	96.1	93.1
Grid 7	Grid 8	Grid 9
141.5	150.1	141.9



0 dB = 150.1V/m

Date/Time: 9/19/2005 10:27:32 AM

Test Laboratory: Kyocera Wireless Corp

File Name: [Validation_H_Dipole_Probe SN6029, Dipole SN1020, set to probe sensor center for 835Mhz, 09-19-05.da4](#)**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1020****Program Name: HAC H-FIELD**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: H3DV5 - SN6029; ; Calibrated: 6/13/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD835MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

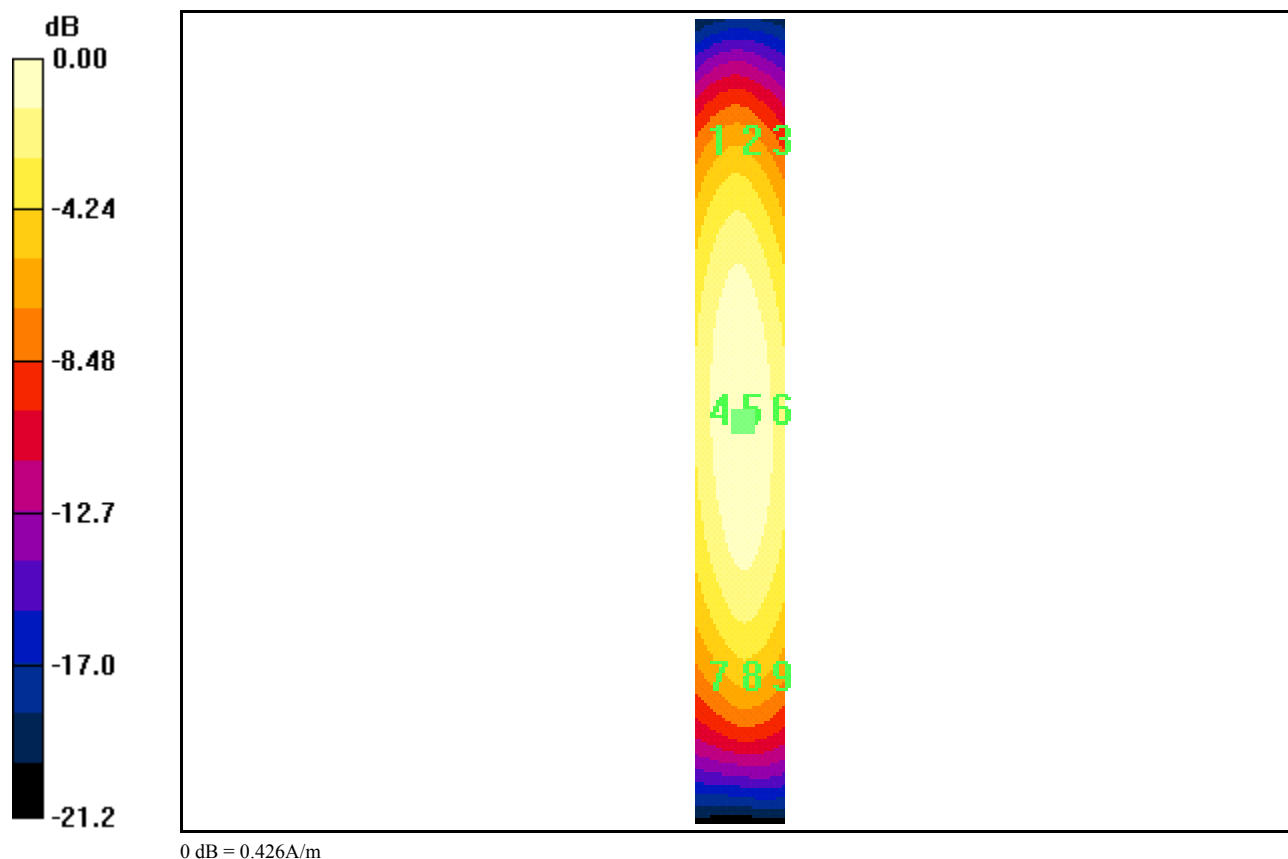
Maximum value of Total field (slot averaged) = 0.426 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3
0.358	0.380	0.355
Grid 4	Grid 5	Grid 6
0.396	0.426	0.408
Grid 7	Grid 8	Grid 9
0.341	0.375	0.363

Grid 1	Grid 2	Grid 3
0.358	0.380	0.355
Grid 4	Grid 5	Grid 6
0.396	0.426	0.408
Grid 7	Grid 8	Grid 9
0.341	0.375	0.363



Date/Time: 9/19/2005 10:02:11 AM

Test Laboratory: Kyocera Wireless Corp

File Name: Validation_E_Dipole_Probe SN2341, Dipole SN1020, set to probe sensor center for 835Mhz, 09-19-05.da4**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: 1020****Program Name: HAC E-FIELD**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6 - SN2341; ConvF(1, 1, 1); Calibrated: 4/22/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn675; Calibrated: 4/12/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

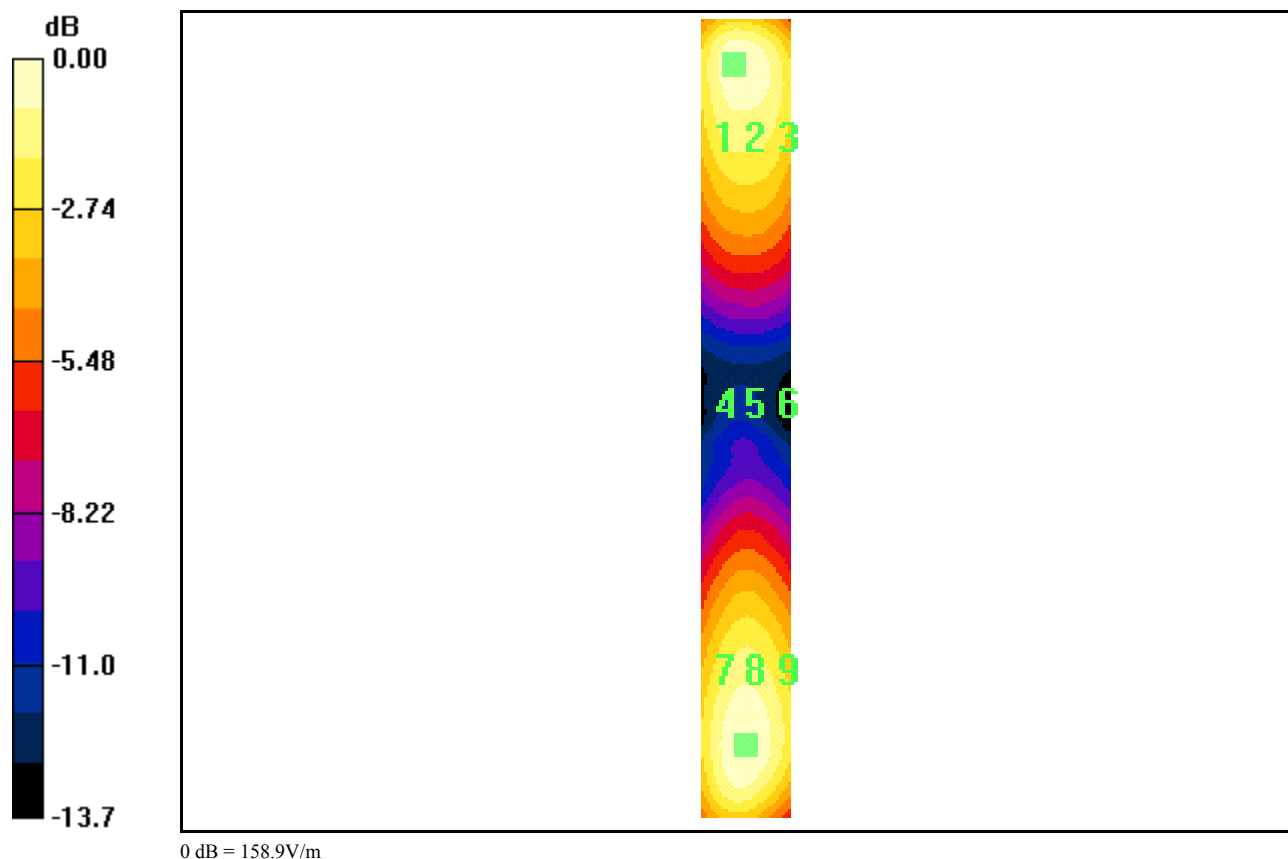
E Scan 10mm above CD835MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 158.9 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
152.7	154.3	149.6	152.7	154.3	149.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.2	84.9	82.0	80.2	84.9	82.0
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
151.6	158.9	152.3	151.6	158.9	152.3



Date/Time: 9/19/2005 10:22:26 AM

Test Laboratory: Kyocera Wireless Corp

File Name: Validation_H_Dipole_Probe SN6029, Dipole SN1015, set to probe sensor center for 1880Mhz, 09-19-05.da4**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1015****Program Name: HAC H-FIELD**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: H3DV5 - SN6029; ; Calibrated: 6/13/2005

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn675; Calibrated: 4/12/2005

- Phantom: HAC Test Arch; Type: SD HAC P01 BA;

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD1880MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

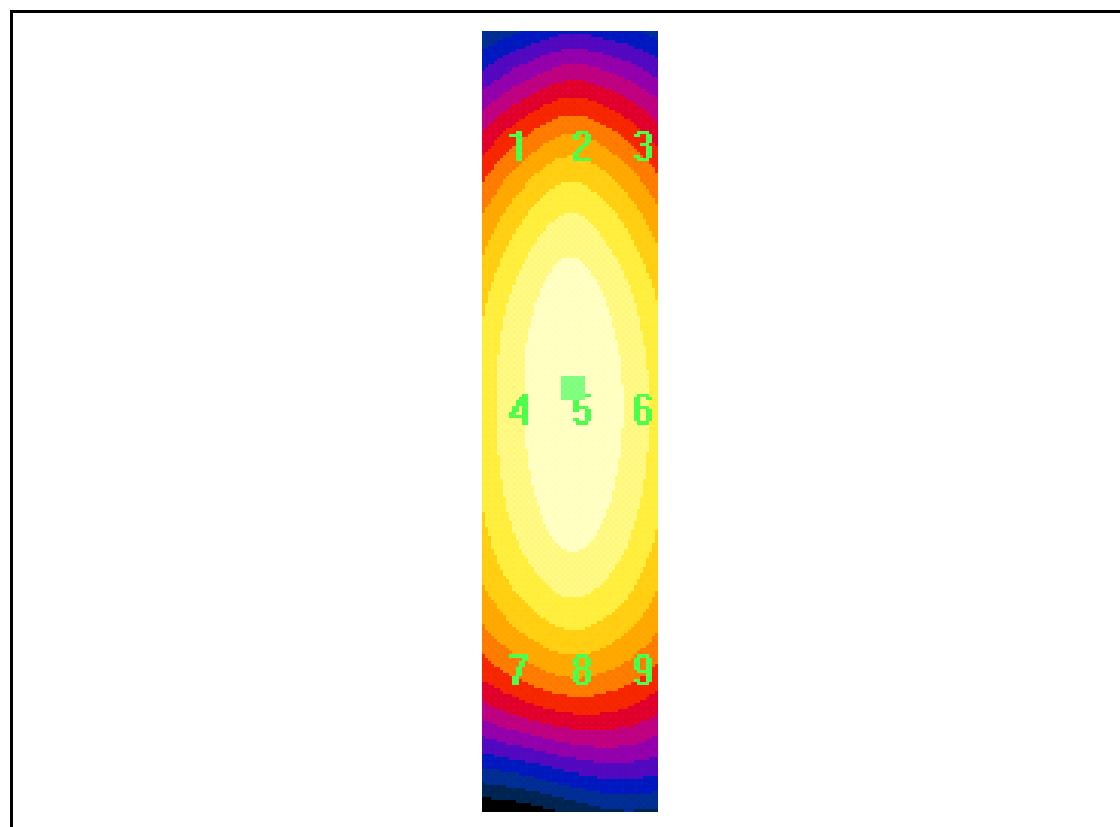
Maximum value of Total field (slot averaged) = 0.474 A/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3
0.415	0.446	0.423
Grid 4	Grid 5	Grid 6
0.442	0.474	0.457
Grid 7	Grid 8	Grid 9
0.397	0.425	0.409

Grid 1	Grid 2	Grid 3
0.415	0.446	0.423
Grid 4	Grid 5	Grid 6
0.442	0.474	0.457
Grid 7	Grid 8	Grid 9
0.397	0.425	0.409



0 dB = 0.474A/m

Date/Time: 9/20/2005 8:44:22 AM

Test Laboratory: Kyocera Wireless Corp.

File Name: Validation_E_Dipole_Probe SN2341, Dipole SN1015, set to probe sensor center for 1880Mhz, 09-20-05.da4**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1015****Program Name: HAC E-FIELD**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

DASY4 Configuration:

- Probe: ER3DV6 - SN2341; ConvF(1, 1, 1); Calibrated: 4/22/2005
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn675; Calibrated: 4/12/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD1880MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 141.9 V/m

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
133.8	139.7	136.0	133.8	139.7	136.0
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
86.7	89.7	85.1	86.7	89.7	85.1
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
136.7	141.9	131.2	136.7	141.9	131.2

